



PATENT  
Case No. N0089US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

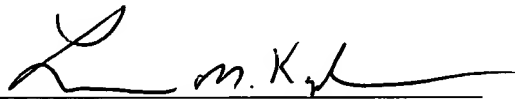
In re Application of: )  
LAWRENCE KAPLAN )  
Serial No. 09/836,501 )  
Title: GEOGRAPHIC DATABASE INCLUDING )  
DATA INDICATING WIRELESS )  
COVERAGE AND METHOD AND )  
SYSTEM FOR USE THEREOF )  
Filed: April 17, 2001 )

**DECLARATION UNDER 37 CFR 1.131**

The undersigned, LAWRENCE KAPLAN, hereby declares that:

1. I am inventor of the invention described and claimed in the above-identified patent application.
2. Before March 28, 2001, I invented a new feature for a navigation system. The navigation system is of the type in which end users obtain some or all of their navigation-related services or geographic data over a wireless data communications system from a remotely located navigation services server. The geographic database includes wireless coverage information that includes geographic areas in which the navigation-related services or geographic data are available wirelessly or not available wirelessly.
3. Before March 28, 2001, I prepared an Invention Disclosure Statement Form describing my invention. I filed the Invention Disclosure Statement Form with the Legal Department of the assignee of the subject patent application. A redacted copy of the Invention Disclosure Statement is attached hereto (Exhibit 1).
4. The section entitled "Detailed Description of Invention" on page 2 of the attached Invention Disclosure Information Form discloses the elements of my invention recited in paragraph 2., above.

5. All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful statements may jeopardize the validity of the application or any patent issuing thereon.



LAWRENCE KAPLAN

1/9/06

DATE

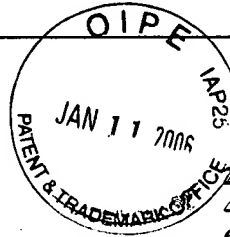
# INVENTION DISCLOSURE STATEMENT

(Return to Legal Department)

(to be filled out by Legal Dept.)

Shorthand Name for Invention: Wireless Coverage Attribute

Developers Who Contributed to Invention: 1. Larry Kaplan  
3. \_\_\_\_\_  
5. \_\_\_\_\_  
7. \_\_\_\_\_



4. \_\_\_\_\_  
6. \_\_\_\_\_  
8. \_\_\_\_\_

Date (or Month) on Which Development Began:	
If Known, First Date (if any) on Which Development was:	
(a) described in a <b>CONFIDENTIAL</b> document released outside of NavTech	
(b) described in a <b>CONFIDENTIAL</b> conversation with a non-NavTech employee	
(c) described in a <b>NON-confidential</b> document released outside of NavTech	
(d) described in a <b>NON-confidential</b> conversation with a non-NavTech employee	
(e) included in any version of a product released outside of NavTech	
(f) used internally at NavTech in the normal course of operations:	

## Summary of Invention:

Adding an attribute or set of data to the NAVTECH database that identifies where (and where not) access to NAVTECH Data and/or services transmitting NAVTECH Data are available wirelessly. Such information can be used in a variety of ways, including for map display (to show wireless coverage areas), and for allowing the user either manually or autonomously to download data for a non-covered area while still located in a covered area.

## Advantages of Invention (to the extent known):

The invention will provide the user with more information than currently available. The invention will allow the user to ensure that he/she has data for non-covered areas before such areas are entered and the data is unavailable.

## Detailed Description of Invention

- describe function(s) performed
- describe with particularity the way in which each function is achieved (e.g., if the invention is a process, describe each step of the process):

The wireless coverage information could be added to the database in any number of different ways. For example, each street could be attributed. Alternatively, the coverage information could be related to zip codes or administrative boundaries, or polygons could be created to represent the wireless coverage areas.

A user of a wireless application (e.g., an in-vehicle navigation system that accesses a wireless service provider for either all or some of its data and/or program functionality needs), could be provided with a number of different features based on the wireless coverage information:

In a first embodiment, the wireless coverage information could be used for purposes of map display. In this embodiment, a map display is generated indicating areas where wireless coverage for the user's systems is or is not available. The indications could be in the form of color coding, hatching, boundaries, or any other suitable means.

In a second embodiment, the end user could be provided with a "warning" that the user is headed towards and/or about to enter an area without wireless coverage. This would allow the user to make further requests for data and/or services while still in the coverage area, and before it is too late. For example, the user may request a maps display that extends into the uncovered area, or a route through it, etc.

In a third embodiment, the user's system would automatically query the service provider for data for the uncovered area as it

CONFIDENTIAL

is approached by the user. The system may download all of the data for the uncovered area or, if the system knows the user's ultimate destination and/or route, sufficient data for the uncovered area to suit the user's expected needs.

The coverage information may also be useful for the user of a hybrid system if the user is planning a trip and realizes that wireless coverage will not be available for certain travel areas. The user can use this information to procure media containing data for the uncovered areas so that it is available locally.

Please check the appropriate box:



No design documents exist



The following design documents exist (and copies are attached):

Signature: \_\_\_\_\_  
(of preparer-developer)

Date: \_\_\_\_\_

Type Name: Larry Kaplan

Signature(s) of Contributing Developers:

1. Name: Larry Kaplan

Date: \_\_\_\_\_

2. Name: \_\_\_\_\_

Date: \_\_\_\_\_

3. Name: \_\_\_\_\_

Date: \_\_\_\_\_

4. Name: \_\_\_\_\_

Date: \_\_\_\_\_

5. Name: \_\_\_\_\_

Date: \_\_\_\_\_

6. Name: \_\_\_\_\_

Date: \_\_\_\_\_

7. Name: \_\_\_\_\_

Date: \_\_\_\_\_